

In the claims:

Claims 1-6 cancelled.

7. (new) A system for producing composite material slabs, comprising one or more mixers(1,2) for mixing a material; hoppers (3, 4) to which the material is unloaded from said one or more mixers (1,2); one or more extractor/conveyor belts (5,6) to which the material is unloaded from said hoppers (3,4) and which feed the material; a homogenizing disk (7)\_which receives the material from said extractor/conveyor belts (5, 6), rotates about a vertical axis and feeds the material; conveyor belts (14,17) which receive the material from said homogenizing disk (7); a leveling hopper (18) which receives the material from the further conveyor belts (14, 17) (18); a double-stroke belt (19) which takes the material from said leveling hopper (18) and unloads it homogeneously; an additional leveling hopper (20) which receives the homogeneously unloaded material from said double-stroke belt (19); an extracting belt (21) which takes the material from said additional leveling hopper (20) and causes as a material to distribute along a length of said extracting belt (21); an underlying leveling hopper (22) to which the material is unloaded from said extracting belt (21), wherein said extracting belt (21) is movable with said underlying leveling hopper (22) that is integral with said extracting belt (21) in an opposite direction to unload the material to an underlying mould (23) so as to cover a whole surface of the mold and to fill the mould.

8. (new) A system as defined in claim 7; and further comprising one or more pairs of rollers located before said homogenizing disk so that the material passes through said one or more pairs of rollers for avoiding any lumps before it is supplied to said homogenizing disk.

9. (new) A system as defined in claim 7; and further comprising color batchers which inject liquid or powder color into the material distributed on said extracting belt before or during transportation to the mold, by fall or spray, so that a product with veins or leopard skin can be produced.

10. (new) A system as defined in claim 7; and further comprising additional mixers located above said extracting belt and providing mixtures of silica granulates, binding agents with different colors, and additional belts for distributing the mixtures to said extracting belt so that leopard skin coloring or vein products can be obtained.

11. (new) A method of producing composite material slabs, comprising the steps of unloading a material from one or more mixers (1, 2) to hoppers (3, 4); unloading the material from the hoppers (3, 4) to one or more extractor/conveyor belts (5, 6); feeding the material from the one or more extractor/conveyor belts (5, 6) to a homogenizing disk (7) rotating about a vertical axis; feeding the material from said homogenizing disk (7) to conveyor belts (14,17) that convey a material to a leveling hopper (18); conveying the material

from the leveling hopper (18) with a double-stroke belt (19) which takes the material by its movement and unloads the material homogeneously to an additional leveling (20) hopper; taking the material from the additional leveling hopper (20) by an extracting belt (21) so as to cause the material to distribute along a length of the extracting belt; unloading the material from the extracting belt (21) to an underlying leveling hopper (22); and moving the extracting belt (21) with the underlying leveling hopper(22) that is integral to the extracting belt (21) so as to unload the material to an underlying mold (23), thereby covering the whole surface of the mold and filling the mold.

12. (new) A slab of composite material made by a method performed by a system for producing composite material slabs and comprising the steps of unloading a material from one or more mixers (1, 2) to hoppers (3, 4) unloading the material from the hoppers (3, 4) to one or more extractor/conveyor belts (5, 6); feeding the material from the one or more extractor/conveyor belts (5, 6) to a homogenizing disk (7) rotating about a vertical axis; feeding the material from said homogenizing disk (7) to conveyor belts (14,17) that convey a material to a leveling hopper (18); conveying the material from the leveling hopper (18) with a double-stroke (19) belt which takes the material by its movement and unloading the material homogeneously to an additional leveling hopper (20); taking the material from the additional leveling hopper (20) by an extracting belt (21) so as to cause the material to distribute along a length of the extracting belt (21); unloading the material from the extracting belt (21) to an underlying leveling

hopper (22); and moving the extracting belt (21) with the underlying leveling hopper (22) that is integral to the extracting belt (21), so as to unload the material to an underlying mold (23), thereby covering the whole surface of the mold and filling the mold.